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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,733	01/10/2005	Ernst Reder	fmw-cq-pct-us	9733
	7590	EXAMINER		
2020 FRONT STREET SUITE 307			KURTZ, BENJAMIN M	
	FALLS, OH 44221		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	A 11 41 N1	I & II - (/)			
	Application No.	Applicant(s)			
Office Action Commons	10/520,733	REDER ET AL.			
Office Action Summary	Examiner	Art Unit			
	BENJAMIN KURTZ	1797			
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPOWHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tire d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 13.	is action is non-final. ance except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-10 and 15-26 is/are pending in the 4a) Of the above claim(s) is/are withdrest allowed. 5) Claim(s) 20,23 and 24 is/are allowed. 6) Claim(s) 1-10,15-19,21,25 and 26 is/are reject 7) Claim(s) 22 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examination The drawing(s) filed on 10 January 2005 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11 The path and declaration is a bis standard by the 5	awn from consideration. cted. /or election requirement. ner. re: a) ☑ accepted or b) ☐ objected or drawing(s) be held in abeyance. Section is required if the drawing(s) is objection.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action of form PTO-132.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

Claims 1-10 and 15-26 are pending, claims 11-14 are cancelled.

Claim Rejections - 35 USC § 102 and 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. <u>Claims 1-8, 16-18, 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vannoy et al. US 5 830 348 in view of Verlinden US 3 958 904.</u>

Claim 1, Vannoy teaches a filter cartridge with a filter material, comprising: a cartridge container (14) with a bottom wall (26) and a peripheral wall and a lid (38), which durably shuts the cartridge container, comprised of a lid bottom and a strip shaped lateral wall having a length measured parallel to the peripheral wall and having a linear vertical cross section along the entire length of the lateral wall, wherein the lateral wall is fitted at the inner side of the peripheral wall and the lateral wall is in contact with the peripheral wall along the entire length of the lateral wall, and the lid having a curved edge section that merges into an essentially horizontal lid bottom middle section (fig. 1, col. 4, lines 8-17). Vannoy does not teach the lid bottom merges

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with the lateral wall in the direction of the peripheral wall along an inward curved section, tapering inwards, in a forming region or that glue or a weld connects at least one section of the common wall section to the peripheral wall.

Verlinden teaches a container (2) with a bottom wall (6) and a lid (3), which durably shuts the container, comprised of a lid bottom (13a) and a strip shaped lateral wall (13) having a length measured parallel to the peripheral wall and having a linear vertical cross section along the entire length of the lateral wall, wherein the lateral wall is fitted at the inner side of the peripheral wall and the lateral wall is in contact with the peripheral wall along the entire length of the lateral wall, wherein the lid bottom merges with the lateral wall in the direction of the peripheral wall along an inward curved edge section, wherein the curved edge section and the lateral wall join in a common wall section, tapering inwards, in a forming region, wherein a lower end of the common wall section is parallel to the cartridge container peripheral wall adjacent thereto, and wherein the lateral wall has an upper wall section which is connected to and extends upward from the common wall section that is parallel to the common wall section lower end and cartridge container peripheral wall adjacent thereto where glue connects at least one section of the common wall section to the peripheral wall (fig. 1, col. 5, lines 21-29).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the lid structure as taught by Verlinden with the lid of Vannoy because the lid structure of Verlinden ensures an effective seal between the lid and container having a strong interconnection and an easy manufacture (col. 1, lines 50-65).

Also, Verlinden demonstrates that this particular structure for a lid is known in the art, particularly when dealing with the problems of the present invention, mainly a pressurized container with a lid. Therefore, because the particular technique was recognized as part of the ordinary capabilities of one skilled in the art the claim would have been obvious, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

Claims 2-8 and 16-18, Verlinden further teaches in vertical cross section the lateral wall is a linear tangent line, and wherein the lateral wall is connected with the curved edge section tangentially (fig. 1); the common wall section forms a lower wall section of the lateral wall that includes the lower end (fig. 1); the curved edge section extend up to the inner end of the strip shaped lateral wall (fig. 1); the curved edge section has a mean edge of curvature R, which satisfies R greater than 5xS, S being the thickness of the peripheral wall of the cartridge container (fig. 1); the curved edge section spans an angle of 90 degrees (fig. 1); the lateral wall upper wall section extends upward from the common wall section at least up to a height of the lid bottom (fig. 1); the upper wall section of the lateral wall and the curved edge section border on their outer side forming a ring space with a wedge shaped cross section (fig. 1);

Claim 25, Vannoy teaches a filter cartridge with a filter material, comprising: a cartridge container (14) with a bottom wall (26) and a peripheral wall and a lid (38), which durably shuts the cartridge container, comprised of a lid bottom and a strip shaped lateral wall having a length measured parallel to the peripheral wall and having a linear vertical cross section along the entire length of the lateral wall, wherein the lateral wall is fitted at the inner side of the peripheral wall and the lateral wall is in

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contact with the peripheral wall along the entire length of the lateral wall, and the lid having a curved edge section that merges into an essentially horizontal lid bottom middle section (fig. 1, col. 4, lines 8-17). Vannoy does not teach the lid bottom merges with the lateral wall in the direction of the peripheral wall along an inward curved section, tapering inwards, in a forming region or that glue or a weld connects at least one section of the common wall section to the peripheral wall.

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Verlinden teaches a container (2) with a bottom wall (6) and a lid (3), which durably shuts the container, comprised of a lid bottom (13a) and a strip shaped lateral wall (13) having a length measured parallel to the peripheral wall and having a linear vertical cross section along the entire length of the lateral wall, wherein the lateral wall is fitted at the inner side of the peripheral wall and the lateral wall is in contact with the peripheral wall along the entire length of the lateral wall, wherein the lid bottom merges with the lateral wall in the direction of the peripheral wall along an inward curved edge section, wherein the curved edge section and the lateral wall join in a common wall section, tapering inwards, in a forming region, wherein a lower end of the common wall section is parallel to the cartridge container peripheral wall adjacent thereto, and wherein the lateral wall has an upper wall section which is connected to and extends upward from the common wall section that is parallel to the common wall section lower end and cartridge container peripheral wall adjacent thereto where glue connects at least one section of the common wall section to the peripheral wall (fig. 1, col. 5, lines 21-29).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the lid structure as taught by Verlinden with the lid of Vannoy because the lid structure of Verlinden ensures an effective seal between the lid and container having a strong interconnection and an easy manufacture (col. 1, lines 50-65). Also, Verlinden demonstrates that this particular structure for a lid is known in the art, particularly when dealing with the problems of the present invention, mainly a pressurized container with a lid. Therefore, because the particular technique was recognized as part of the ordinary capabilities of one skilled in the art the claim would have been obvious, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

Claim 26, Vannoy teaches a filter cartridge with a filter material, comprising: a cartridge container (14) with a bottom wall (26) and a peripheral wall and a lid (38), which durably shuts the cartridge container, comprised of a lid bottom and a strip shaped lateral wall having a length measured parallel to the peripheral wall and having a linear vertical cross section along the entire length of the lateral wall, wherein the lateral wall is fitted at the inner side of the peripheral wall and the lateral wall is in contact with the peripheral wall along the entire length of the lateral wall and the lid having a curved edge section that merges into an essentially horizontal lid bottom middle section (fig. 1, col. 4, lines 8-17). Vannoy does not teach the lid bottom merges with the lateral wall in the direction of the peripheral wall along an inward curved section, tapering inwards, in a forming region.

Verlinden teaches a container (2) with a bottom wall (6) and a lid (3), which durably shuts the container, comprised of a lid bottom (13a) and a strip shaped lateral

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wall (13) having a length measured parallel to the peripheral wall and having a linear vertical cross section along the entire length of the lateral wall, wherein the lateral wall is fitted at the inner side of the peripheral wall and the lateral wall is in contact with the peripheral wall along the entire length of the lateral wall, wherein the lid bottom merges with the lateral wall in the direction of the peripheral wall along an inward curved edge section, wherein the curved edge section and the lateral wall join in a common wall section, tapering inwards, in a forming region, wherein a lower end of the common wall section is parallel to the cartridge container peripheral wall adjacent thereto, and wherein the lateral wall has an upper wall section which is connected to and extends upward from the common wall section that is parallel to the common wall section lower end and cartridge container peripheral wall adjacent thereto and the curved edge section has a mean edge of curvature R, which satisfies R greater than 5xS, S being the thickness of the peripheral wall of the cartridge container where glue connects at least one section of the common wall section to the peripheral wall (fig. 1, col. 5, lines 21-29).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the lid structure as taught by Verlinden with the lid of Vannoy because the lid structure of Verlinden ensures an effective seal between the lid and container having a strong interconnection and an easy manufacture (col. 1, lines 50-65). Also, Verlinden demonstrates that this particular structure for a lid is known in the art, particularly when dealing with the problems of the present invention, mainly a pressurized container with a lid. Therefore, because the particular technique was

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recognized as part of the ordinary capabilities of one skilled in the art the claim would have been obvious, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

2. <u>Claims 9, 10, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vannoy '348 and Verlinden '904 and further in view of Stifano US 4 109 820.</u>

Claims 9 and 19, Vannoy and Verlinden teach the filter cartridge of claim 1 or 8 but do not teach a back up ring arranged on the lid.

Stifano teaches a cartridge having a lid further comprising a back up ring arranged on the lid (col. 3, lines 32-34), the back up ring has an inner wall comprising a ring opening (25) an outer lateral wall in contact with the lid lateral wall and a plurality of radial reinforcing ribs (14) extending between the back up ring inner wall and the back up ring outer lateral wall (fig. 5). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the back up ring of Stifano because the ring redirects the pressure within the container to the walls and makes a stronger seal (col. 3, lines 46-56).

Claim 10, Stifano further teaches at least a bottom contour of the back up ring is connected to the back up ring inner wall and the back up ring outer lateral wall and is built such that the bottom contour is complementary to an outer contour of the lid (fig. 6).

Claim 21, Vannoy further teaches the lid includes a connecting tube at its center that is connected to the essentially horizontal lid bottom middle section and Stifano also teaches the lid including a connecting tube (25) accessible through the ring opening of the back up ring (Vannoy (fig. 1), Stifano (fig. 6)).

3. <u>Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over</u>
Vannoy '348 in view of Verlinden '904 and Gizowski et al. US 2001/0000894 A1.

Vannoy further teaches a weld where the weld is a laser weld but does not teach the material of the cartridge is transparent to laser light. Gizowski teaches the material of the cartridge container is transparent to laser light and at least the material of the lateral wall of the lid is absorptive to laser light (paragraph 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the materials as taught by Gizowski because it enables increase manufacturing rates and provides a higher quality fluid seal (paragraph 7).

Response to Arguments

4. Applicant's arguments filed 4/13/09 have been fully considered but they are not persuasive.

Applicant argues that Vannoy does not teach a common wall section that is parallel to the peripheral wall section or glue or a weld connecting at least one section of common wall section to the peripheral wall. Vannoy is not relied upon to teach these

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features as they are taught by Verlinden as detailed in the rejection above. Applicant also argues that Vannoy does not teach the curved edge section merging into an essentially horizontal lid bottom middle section. Vannoy teaches such a feature as clearly seen in figure 1 where the element (40) extends from the middle horizontal lid bottom section.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). Applicant has not shown how the combination of the cited references amounts to more than a predictable result of the combination of Vannoy and Verlinden.

Allowable Subject Matter

5. Claim 22 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 23, 24 and 20 are allowed.

Conclusion

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6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to BENJAMIN KURTZ whose telephone number is

(571)272-8211. The examiner can normally be reached on Monday through Friday

8:00am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Benjamin Kurtz

Examiner

Art Unit 1797

/Krishnan S Menon/ Primary Examiner, Art Unit 1797